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TO: GERLACH*ROSE M 01/28/2004
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THE FOLLOWING CHANGES HAVE OCCURRED TO THE HARDCOPY OR ELECTRONIC MANUAL ASSIGNED TO YOU:

245 - 245 - DOSE ASSESSMENT SUPERVISOR

REMOVE MANUAL TABLE OF CONTENTS DATE: 01/26/2004

ADD MANUAL TABLE OF CONTENTS DATE: 01/27/2004

CATEGORY: PROCEDURES TYPE: EP
ID: EP-PS-245
REPLACE: REV:5

REPLACE: REV:5

REMOVE: PCAF 2003-1638 REV: N/A

ADD: PCAF 2003-1638 REV: N/A

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EOF DOSE ASSESSMENT FLOWCHART

TAB 1
EP-PS-245-1

ACTIVATION REQUIREMENTS
- Dose Assessment Supervisor
  - DAST & FTD Available
- Dose Assessment Staffer
  - MIDAS Available &
  - PICSY or TSC Communications Available
- Field Team Director
  - Communications Link Available

EVENT STATUS
- RPC to DASU
- TSC DC to DAST
- HP Radioman to FTD
- "A" and "B" Team Briefing
- Staff Briefing and Info Exchange

TURNOVER RPC to DASU
- ALL Calculations
- Control of Field Teams
- DEP/BRP Communications
- Event/Source Term Agreement
- Liquid/Airborne Release
- Previous Data Transferred

Turnover Time ___:___

DEFAULT RATIOS
Noble Gas to I-131 = 1,000
Noble Gas to Particulate = 10,000

Field Threshold Values
RMS (Fixed & Mobile) Gamma detectors = 0.1 mr/hr
OSCAR Iodine monitor = 68.4 mrem/hr
Field Team I-131 Air Sample = 100 ncpm

Vent Flow Rates (cc/minute)
U#1 RB = 3.5E+9 cc/min U#2 RB = 3.2E+9 cc/min
U#1 TB = 4.4E+9 cc/min U#2 TB = 2.7E+9 cc/min
SBGT (10,100 scfm) = 2.9E+8 cc/min w/outside air dilution

Secondary Containment Flow to SBGT
Max Flow Rate (4000 scfm max)= 1.1E+8 cc/min

Filter Efficiencies
SE Charcoal Acceptance Criteria = 99.825%
SE Particulate Acceptance Criteria = 99.95%

Containment High Radiation Monitor
Background @ 100% power ~ 3 R/hr

MONITOR EFFLUENT RELEASE AND PLANT STATUS
- * PICSY Met Vent Data
- * Field Team and Fixed Monitor Data
- * In-Plant Conditions

A

> Default Accident triggers (note 3 pg. 2)? YES / NO

Filtered Design Basis Leakage Release? YES / NO

Blowout Panel Concern? NO / YES

Default Accident Calculation MIDAS Menu D

NUREG 1228 Calculation MIDAS Menu C

> NUREG 1228 Triggers? (note 4 pg. 2) YES / NO

Blowout Panel Calculation MIDAS Menu G

PICSY NG Data is White? NO / YES

SBGT Systen Running ? YES / NO

White NG Data is Only on Affected RB ? YES / NO

White NG Data is Only on Unaffected Unit ? YES / NO

Use Vent Totals Until Alternate Data is Available for vents which are white

USE Noble Gas Vent Totals with Default or Measured Noble Gas to Iodine (Particulate) Ratio

ALTERNATE DATA
Manual SPING Data (Sum of Hi Alarm Channels)
Chemistry SPING Vent Samples
PAVSS Noble Gas Readout
PAVSS Vent Sample
HP Air Sample

Vent Release? (note 1 pg 2) YES / NO

FORWARD CALCULATION using Vent Data MIDAS Menu B

Alternate Vent Data Available? YES / NO

GO TO A

Concurrent Activities

Validate Assumptions & Results with Engineering

For Measured Dose Rates ≥ Threshold Values Calculate
Measured EDE/Projected EDE Ratio
&
Measured CDE/Projected CDE Ratio

Ratio between 0.1 and 1? YES / NO

Ratio > 1 YES / NO

High Field Readings
Perform Back Calculation
MIDAS E-W

Unmonitored Release
If Ratio > 5

Low Field Readings < 0.1
FTD LOCATE PLUME

Use Forward Calculation Data

> RMS or Field Team Triggers? (note 2 pg. 2) YES / NO

UNMONITORED RELEASE
MIDAS E - W
Back Calculation

- * Select appropriate TEDE and THY CDE
- * Discuss Release Pathway and Source Term with Engineering Support Supervisor
- * Report Classification and PAR Triggers to RM
- * Select PAR at Command and Control Table per PAR Guide

- * Approve PAR Forms
- * Contact DEP/BRP
  - About every 30 Minutes
  - Classification or PAR Change

- * Control Exposure and Dose
  - < 4 Rem WB
  - > 4 Rem WB - w/Emerg. Extension
  - < 5 Rem Thy CDE/Shift
  - < 10 Rem Thy CDE Total
- * Initiate Thy CDE Tracking & consider Respiratory Protection for Oscar
  - > 1000 mrem/hr Thy CDE
  - > 1200 ncpm (cartridge)
- * Consider WBC

- * Consider transition from plume to post-plume phase

Reference:
SSES Contamination Response Plan

Release Terminated? YES / NO

DOSE ASSESSMENT EMERGENCY ACTION LEVELS

NOTE 1 VENT RELEASE TRIGGERS	NOTE 2 RMS/FIELD TRIGGERS	NOTE 3 DEFAULT ACCIDENT TRIGGERS	NOTE 4 NUREG 1228 TRIGGERS	NOTE 5 LIQUID RELEASE TRIGGERS
♦ AIRBORNE RELEASE Total NG Release Rate > 1.0E6 µci/min** or Entry into one of the following EALs* EAL 3, 15, 17, 18 or 21 with a DSC breached or Initiation of SBGT for treatment of activity within Containment* or A release above normal levels attributable to a declared event* or An unmonitored release is in progress * Perform one calculation unless directed otherwise ** Perform dose projections every 15 minutes	♦ AIRBORNE RELEASE ** ≥ 0.1 mrem/hr EDE (ASP1 or RMS gamma reading) ≥ 68.4 mrem/hr Thy CDE (OSCAR RMS Iodine) ≥ 100 ncpm on Iodine Cartridge ** Perform dose projections every 15 minutes	♦ INDICATION OF FUEL DAMAGE > 10 R/hr CHRM	♦ UNFILTERED VENT RELEASE ♦ RELEASE RATE > DESIGN BASIS 1%/DAY ♦ CORE UNCOVERED > 15 MINUTES ♦ SPENT FUEL POOL RELEASE	♦ LIQUID RELEASE Liquid Effl. ≥ TRM
♦ EAL 15.1 (Unusual Event) >2.0E6 µci/min NG for 60 min. or longer				♦ EAL 15.1 Liquid Effl. ≥ 2 x TRM for 60 min
♦ EAL 15.2 (Alert) >2.0E8 µci/min NG for 15 min. or longer		EAL 3.2 SEVERE CLAD DEGRADATION >200 R/hr CHRM or >300 µci/cc DE Iodine-131		♦ EAL 15.2 Liquid Effl. ≥ 200 x TRM for 15 min
♦ EAL 15.3 (Site Area Emergency) >6.2E8 µci/min NG for greater than15 min & dose projection not available Note: If dose projection cannot be made within 15 minute period, then declaration to be made on valid sustained NG release rate. PROJECTED DOSE @ EPB >100 mrem TEDE or >500 mrem THY CDE	♦ EAL 15.3 RMS PERIMETER MONITORING SYSTEM > 100 mR/hr for 15 min or longer FIELD TEAM SURVEY RESULTS @ EPB > 100 mR/hr & expected for 60 min or ≥ 500 mrem THY CDE for one hour of inhalation	♦ EAL 3.3 SEVERELY DEGRADED CORE > 400 R/hr CHRM or > 1000 µci/cc DE Iodine-131		
♦ EAL 15.4 (General Emergency) >6.2E9 µci/min NG for greater than15 min & dose projection not available Note: If dose projection cannot be made within 15 minute period, then declaration to be made on valid sustained NG release rate. PROJECTED DOSE @ EPB ≥ 1000 mrem TEDE or ≥ 5000 mrem THY CDE	♦ EAL 15.4 RMS PERIMETER MONITORING SYSTEM > 1000 mR/hr for 15 min or longer FIELD TEAM SURVEY RESULTS @ EPB > 1000 mR/hr & expected for 60 min or ≥ 5000 mrem THY CDE for one hour of inhalation	♦ EAL 3.4 CORE MELT > 400R/hr CHRM plus listed conditions or > 1000 µci/cc DE Iodine-131 or > 2000 R/hr CHRM		